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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/537,669	05/31/2006	Konstntin Lindenthal	101914107 6344	
26646 KENYON & K	7590 06/04/2007 XENYON LLP	EXAMINER		
ONE BROAD	WAY		NGUYEN, TUYEN T	
NEW YORK, NY 10004			ART UNIT	PAPER NUMBER
			2832	
			MAIL DATE	DELIVERY MODE
			06/04/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

•	Application No.	Applicant(s)					
	10/537,669	LINDENTHAL ET AL.					
Office Action Summary	Examiner	Art Unit					
	TUYEN T. NGUYEN	2832					
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period v  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from 1. cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on							
,	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>10-18</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>10-18</u> is/are rejected.	6)⊠ Claim(s) <u>10-18</u> is/are rejected.						
7) Claim(s) is/are objected to.	a ala akina wa mainama amb						
8) Claim(s) are subject to restriction and/o	r election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
11) Ine oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action of form PTO-152.					
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:							
1.⊠ Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list	of the certified copies not receive	ed.					
Attach was MA							
Attachment(s)  1) Notice of References Cited (PTO-892)	4) Interview Summary	/ (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	oate					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 6/6/2005.	5)	-атепт Арріісаціоп					

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#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 17 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. There is no antecedent basis for "the primary winding."

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 10-11, 13-14 and 17-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Kanazawa et al. [US 6,457,229 B1].

Kanazawa et al. discloses an ignition coil [figure 2] comprising:

- a rod core [3];
- a first bobbin [2A] having a first coil [2];
- a second bobbin having a second coil [1], wherein the second bobbin is formed by an assembly including the first bobbin, the first coil and a potting compound [resin 12] for the first coil;
  - a flux return [10] surrounding the first coil.

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Regarding claim 11, Kanazawa et al. inherently discloses contacts for the first coil being embedded in the resin.

Regarding claim 13, Kanazawa et al. discloses the assembly being fixed with an elastomer [19].

Regarding claim 14, Kanazawa et al., in other embodiment [figure 3], discloses the rod core being fixed using an elastomer [20].

Regarding claim 17, Kanazawa et al. discloses the first coil [or second coil] is at least partially embedded in the elastomer [19].

Regarding claim 18, Kanazawa et al. inherently discloses the elastomer [19] forms a mechanical fixing for the flux return member [10].

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kanazawa et al. in view of Skinner et al. [US 6,556,116 B2].

Kanazawa et al. discloses the instant claimed invention except for an air gap.

Skinner et al. discloses an air gap [22] between the coil assembly and an outer flux return shell [20].

It would have been obvious to one having ordinary skilled in the art at the time the invention was made to include an air gap between the coil assembly and the outer flux return

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shell of Kanazawa et al., as suggested by Skinner et al., for the purpose of improving expand/contract.

Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kanazawa et al. in view of Koelter [US 6,286,490 B1].

Kanazawa et al. discloses the instant claimed invention except for the elastomer being formed as a protective jacket.

Koelter discloses an elastomer body [figure 3] for an iginition coil.

It would have been obvious to one having ordinary skilled in the art at the time the invention was made to use elastomer for the protective jacket [body/casing] of Kanazawa et al., as suggested by Koelter, for the purpose of improving vibration.

Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kanazawa et al. in view of Sakamaki et al. [US 5,870,012]].

Regarding claim 16, Kanazawa et al. discloses the instant claimed invention except for the elastomer forms one of a retaining ring and a protective ring.

Sakamaki et al. discloses an ignition coil assembly [figure 1] being fixed with an elastomer retaining ring [24].

It would have been obvious to one having ordinary skilled in the art at the time the invention was made to fix the ignition coil assembly of Kanazawa et al. with the elastomer retaining ring, as suggested by Sakamaki, for the purpose of reducing vibration.

#### Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to TUYEN T. NGUYEN whose telephone number is 571-272-1996. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, ELVIN ENAD can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TN TW

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